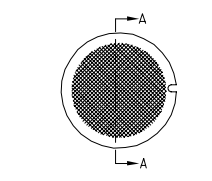
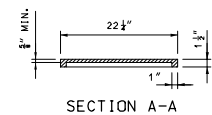


COVER

ADJUSTING RING

FRAME

INSTALLATION DETAILS



APPROXIMATE WEIGHT OF FRAME & COVER 150 LBS.

ALTERNATE TYPE 4 COVER

GENERAL NOTES:

TYPE 1A:  
WHEN "P" (PAVEMENT THICKNESS) IS 8" USE MANHOLE FRAME WITH 9" HEIGHT (F)  
APPROXIMATE WEIGHT OF FRAME & COVER, 540 LBS., CLASS 35 CASTING.

TYPE 1B:  
WHEN "P" (PAVEMENT THICKNESS) IS 9" OR 10", USE MANHOLE FRAME WITH 10" HEIGHT (F)  
APPROXIMATE WEIGHT OF FRAME & COVER, 570 LBS., CLASS 35 CASTING.

TYPE 1C:  
TYPE 1C MANHOLE FRAME AND COVER WILL BE ACCEPTED AS AN ALTERNATE TO TYPE 1A OR TYPE 1B, APPROXIMATE WEIGHT OF FRAME & COVER, 290 LBS.

FOR "P" GREATER THAN 10" ADJUSTING RINGS COMBINED WITH MANHOLE FRAMES WITH "F" EQUAL TO 9" OR 10" SHALL BE USED TO MATCH PAVEMENT THICKNESS.

THE PRICE BID FOR MANHOLE FRAME AND COVER SHALL INCLUDE THE NUMBER OF ADJUSTING RINGS REQUIRED TO MATCH PAVEMENT THICKNESS.

WHEN SPECIFIED, USE A LOCK TYPE FRAME & COVER WITH A MINIMUM OF THREE LOCK BLOCKS AND BOLTS.

MANHOLE ADJUSTING RINGS SHALL BE SECURED TO EITHER THE FRAME OR PAVEMENT TO PREVENT MOVEMENT UNDER TRAFFIC.

A CHECKERED DESIGN TOP SHALL BE FURNISHED.

TYPE 1A & 1B  
APPROXIMATE WEIGHT OF FRAME & COVER  
TYPE 1A 540 LBS.  
TYPE 1B 570 LBS.

TYPE 1C  
APPROXIMATE WEIGHT OF FRAME & COVER 290 LBS.

TYPE 2  
APPROXIMATE WEIGHT OF FRAME & COVER 250 LBS.

TYPE 3  
APPROXIMATE WEIGHT OF FRAME & COVER 115 LBS.

TYPE 4  
APPROXIMATE WEIGHT OF FRAME & COVER 160 LBS.  
(SEE ALTERNATE COVER)

ADJUSTING RING  
SOLID OR ADJUSTABLE

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
MANHOLE FRAMES AND COVERS			
DATE: _____	EFFECTIVE: 03-01-1996	614.30E	1/1